KLINKMANN

Klinkmann Automation Tuning konsepti

Toimittajariippumaton laite- / ohjelmistokokonaisuus, joka mahdollistaa laitteiston tehokkuuden parantamisen.

Tuning työkalut

Ohjelmistot ja laitteet eri toimittajien järjestelmiin:
- Valvonta, ohjaus ja raportointi, HMI ja SCADA
- Logiikat ja moottorinohjaus, ohjauskomponentit
- Tuotantotehokkuuden parantaminen, optimaalinen energianhallinta ym.

Tietoverkot – teollisuus-ethernet ja kuituverkot:
- verkkotuotteet kupari- ja kuituverkkoihin, kuitumuuntimet
- Industrial WLAN ja mobiilit verkot (GSM-GPRS-3G)

Lisätuotteet S7 järjestelmiin:
- I/O- ja väylätuotteet, S7 etäohjelmointituotteet

Klinkmann palvelut:
- Järjestelmän esisuunnittelu
- Uusien teknologioiden koulutus, konsultointi ja pilotointi
- Käyttöönottotuki
- Automaation kuntokartoitus, ohjelmistojen versionhallinta ja ylläpitö
- Projektoivat Klinkmann Partneri-yritykset

KLINKMANN

Our offer to S7 users

To improve and expand standard S7 features.

To reach cost savings in S7 applications.

Klinkmann and S7 PLC controllers

- Klinkmann has made Simatic related technical consultation and development work since 1994
- Klinkmann has today over 100 developer years experience of Simatic controllers and networks
- Klinkmann supplies a complete assortment of products and software from major manufacturers to expand standard S7 features
- Klinkmann developed S7 software (communication and wireless automation) is used in over 80 countries in various applications

S7 supported

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Systeme Helmholz

compatible with you

Automation Components for S7 Applications

- **I/O Units**
- **PROFIBUS Connectors, Repeaters etc.**
- **MPI Adapters, Teleservice Remote units**
- **CAN cards**

S7 supported

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Systeme Helmholz

compatible with you

Micro Memory Modules/ Memory Modules for S7-400

- All common types of Memory Modules
- Compatible to the Siemens Types
- Easy type converting: Siemens 6ES7-953-8LG11, Helmholz 700-953-8LG11
- Special types available that Siemens don't offers 256KB and 1MByte
- MMC needed in all CPU´s and C7 Systems

- Memory Modules for S7 400 / Code 700-952-_ _ _ _
- Very advantageous price-performance
- Compatible to the Siemens Types 6ES7-952-_ _ _ _

S7 supported

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Systeme Helmholz compatible with you

Digital Input/Output Modules DEA300, S7-300

- We can offer the most common types of Digital Input Output modules for standard applications
- Usable in central and Extension rack
- Hot-Swap compatible with Siemens PCB Backplane
- Compatible with Siemens types 6ES7-321-1BL00-0AA0 Helmholz type 700-321-1BL00 (technical need for use in the Simatic Manager)
- Outputs: 500mA current
- UL certificate for the most of our I/0 modules Class1 Dif2. for use in hazardous locations
- No Program modification need when changing Siemens with Helmholz module
- Following types are available: 16 IN,32IN,16OUT,32 OUT, 8IN/OUT, 16IN/OUT, 8chanel 2Amp. OUT, Relay Modules, 120/230V IN, m-reading IN
  Alert Module

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Systeme Helmholz compatible with you

Analog Input Output Modules AEA300

- Special types of Input Modules for Current Signals, Voltage and Resistance Thermometers
  700-331-4MA20
  700-331-0V010
  700-331-PT100 Ref. for Simatic Manager 6ES7-331-7KF01
- Compatible with the Siemens module but only for one Measurement
- Compatible type with Siemens Ref. 700-331-1KF01

- Analog Output Modules are compatible with the Siemens References
  700-332-5HB01 2 channels
  700-332-5HD01 4 channels
  Siemens References:
- 6ES7-332-5HB01
  6ES7-332-5HD01
- Hot-Swap compatible
  UL-listed
  Class1 Dif2 listed

S7 supported

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Systeme Helmholz
compatible with you

Front Connectors/ Din Rails

- 20 way and 40 way with screw connection
  700-392-1AJ10
  700-392-1AM01
- 20 way and 40 way with spring terminals
  700-392-1BJ01
  700-392-1BM01
- 40 way with EasyConnect Technology
  700-392-1AM10
- Available ready wired with 2,3 and 5 meter cable
- Mounting Racks in different length from 160mm up to 2000mm

S7 supported

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Systeme Helmholz
compatible with you

PROFIBUS Connectors

- all common types of Connectors available in Screw, EASY Connect (Fast connect) and spring type terminal

- Metalized housing
- No loosable parts
- Integrated terminating resistors
- small housing
- Visual Connection control
- 3 LED Status Display
- 90 degree, 35 degree, axial

S7 supported

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Systeme Helmholz compatible with you

PROFIBUS Compact Repeater

- A real alternative to conventional PROFIBUS Repeaters
- No additional space needed in the cabinet
- Very flexible to use
- Can be uses as a bus extension or spur line
- Increase the number of Nodes
- System Expansion
- Can be used in MPI networks
- Status LEDs
- 24V supply is not necessary
- 5V supply direct from the PROFIBUS (useable on every PROFIBUS Device

S7 supported

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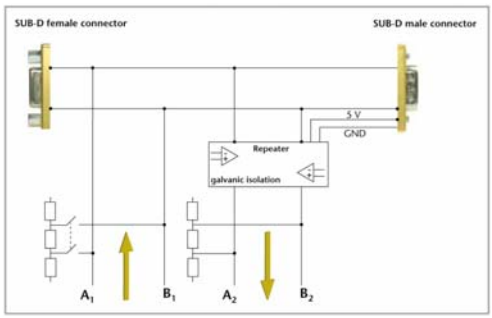
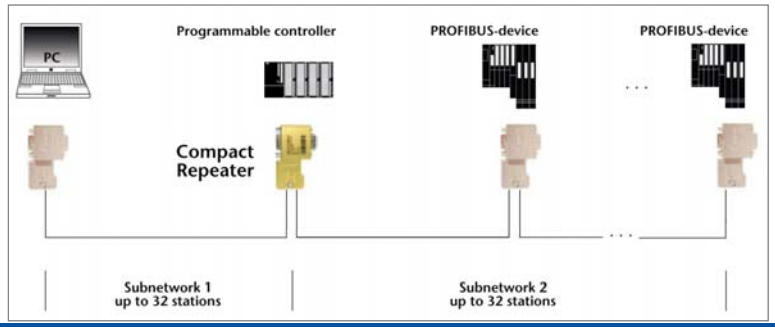
Systeme Helmholz compatible with you

PROFIBUS Compact Repeater





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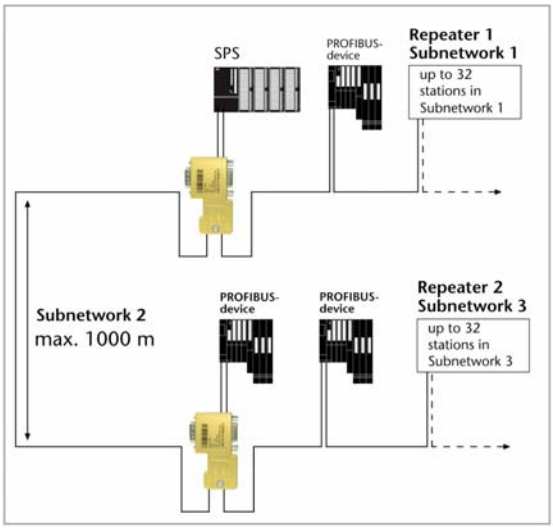
Systeme Helmholz
compatible with you

PROFIBUS Compact Repeater



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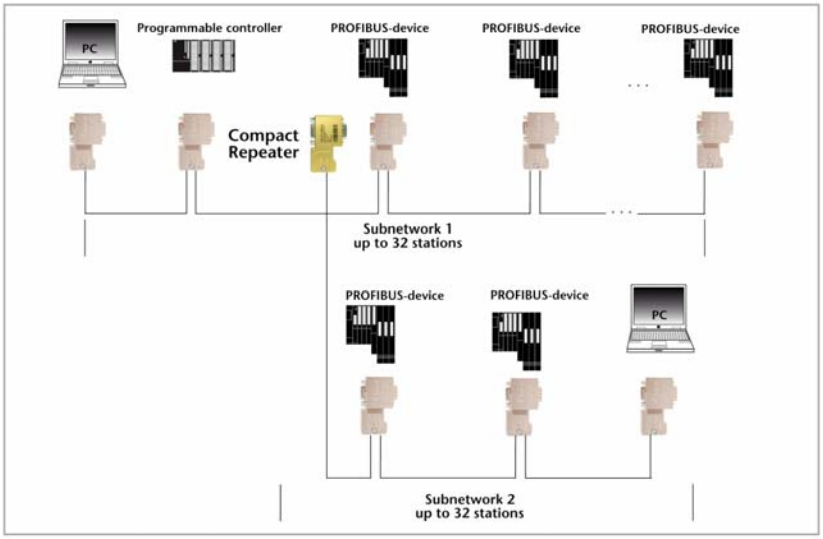
Systeme Helmholz
compatible with you

PROFIBUS Compact Repeater



Application example of more than 32 stations

S7 supported

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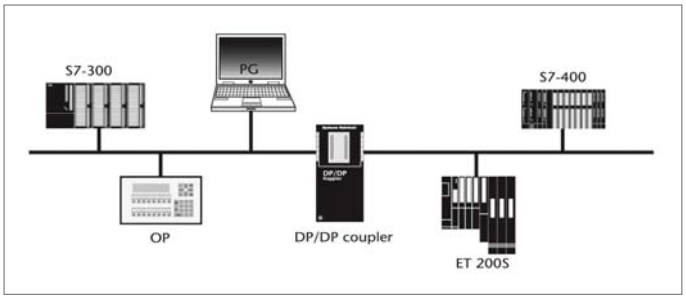
Systeme Helmholz compatible with you

PROFIBUS DP/DP Coupler

- Connecting 2 different PROFIBUS Networks
- Up to 244 bytes of input data and 244 bytes of output data can be exchanged
- Dual-redundant power supply
- Electric isolation between the Networks
- PROFIBUS addresses can be set by DIL switch or software
- Compatible with Siemens Reference



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Systeme Helmholz compatible with you

MPI Adapter

- Programming and visualization
- Serial our USB Port
- Transmission Rate up to 115 KBaud
- MPI Speed up to 187,5 Kbit/s
- Power supply via programming device or via external 24V supply

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Systeme Helmholz
compatible with you

Other S7 Products

- SSW7 TS PRO Teleservice – Module
- PAS 153 – distributed PROFIBUS Interface
- NETLink WLAN – PROFIBUS Ethernet WLAN Gateway
- MDM 300 GSM Modem
- CAN 300 PRO

S7 supported

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HIRSCHMANN

HIRSCHMANN: The new OZD Profi (OLM) Profibus Fiber

High-performance
• Field bus repeater with high fiber transmission capacity

Innovative
• Now with predictive maintenance function

New product variety
• Eight different device models with various properties

More reliability
• Remote maintenance via process control system

Applications
• traffic and building automation, petrochemistry and engineering

S7 supported

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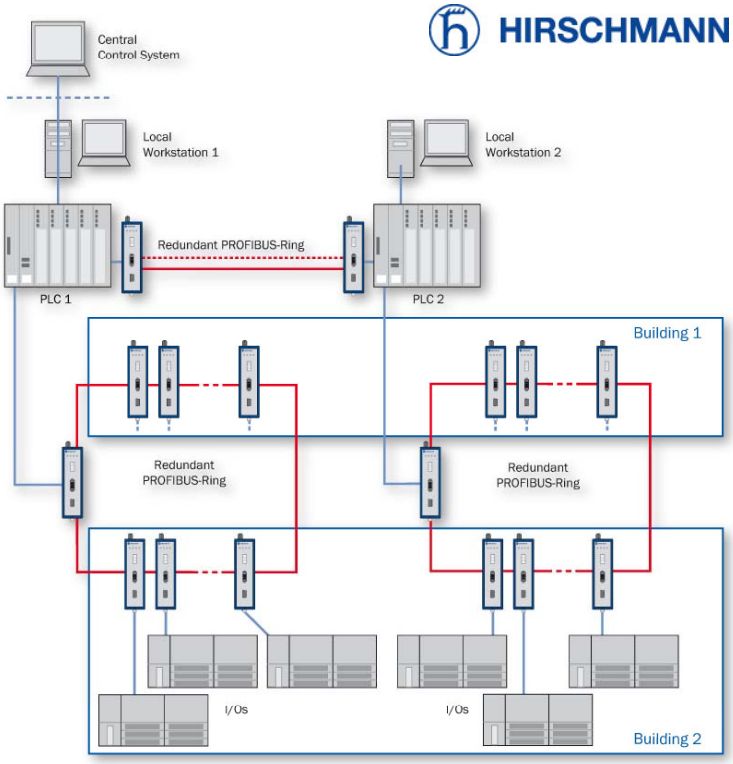
HIRSCHMANN

OZD Profi



S7 supported

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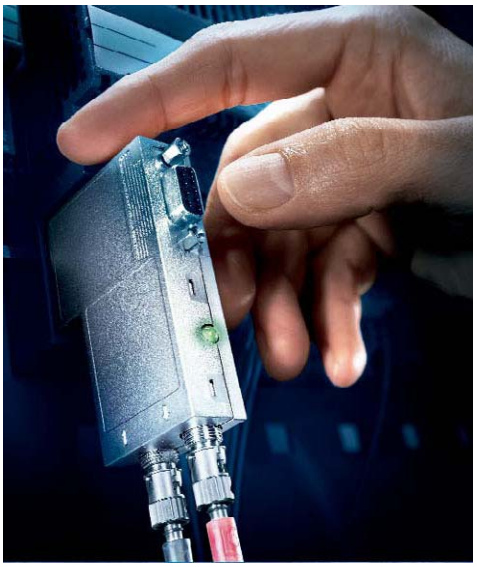
HIRSCHMANN

The new Hirschmann ProfiPlug

- Compact fiber optic repeater for plastic or HCS fiber
- Good RFI/EMI immunity for reliable Profibus data transmission
- Plug it right into the controller – it doesn't get any easier than this
- Bus powered, designed to prevent accidental misuse



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HIRSCHMANN

ProfiPlug

Bus powered
• The first fiber optic repeater without the need for a power connection

Flexible
• Can be used in combination with copper cables

Attractive price
• Optimized for short-distance fiber optic links

Designed to prevent misuse
• No switches or cables, simply plug it in and you are ready to go

Compact
• Plug form factor, can simply be plugged into a Profibus device

Expandable
• OZD Profi offers optical connectivity to large fiber optic networks

Immunity to interference
• Fiber optics technology eliminates susceptibility to RFI/EMI and ground loops

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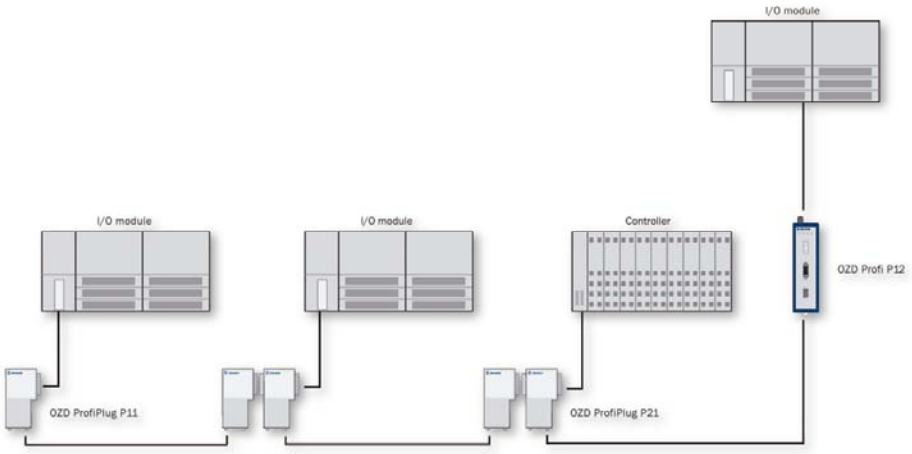
HIRSCHMANN

ProfiPlug



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HIRSCHMANN

OZD Profi 12M – the original from Hirschmann at a glance

- PROFIBUS repeater for extremely safe FOC connections and DIN rail assembly
- any cascading depth
- all Profibus data rates from 9.6 kbit/s to 12 Mbit/s
- ideal for great transmission distances: up to 15 km range at full data speed
- hard real time capability
- extremely fast redundancy capability in the HIPER ring
- cost-saving preventive maintenance via separate outputs and potential-free error contacts
- suitable for every network topology (line, star, ring)
- For all fiber types: POF, HCS, 62.5 µ, 50 µ, 9 µ
- Ex licenses

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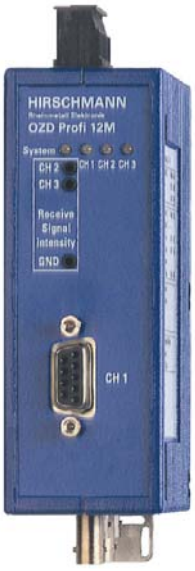
HIRSCHMANN

OZD Profi 12M



Ref. No.	Product name
943 728-221	OZD Profi 12M P11
943 728-321	OZD Profi 12M P12
943 727-221	OZD Profi 12M G11
943 727-321	OZD Profi 12M G12
943 729-221	OZD Profi 12M G11-1300
943 729-321	OZD Profi 12M G12-1300
943 730-321	OZD Profi 12M G12 EEC
943 256-321	OZD Profi 12M G12-1300 EEC

KLINKMANN

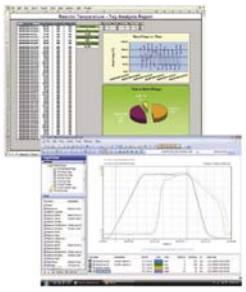
Wonderware - InTouch HMI / SCADA software

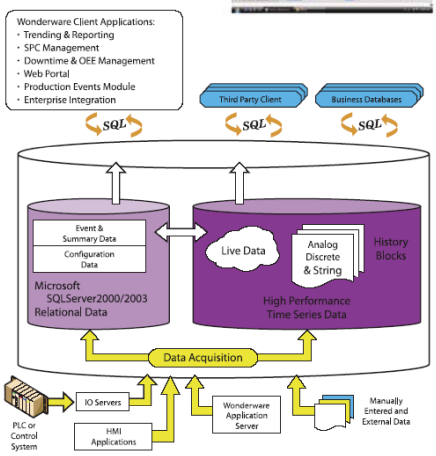
- world´s most used automation software: over 600.000 installations in over 120.000 sites
- visualization, alarm and recipe management, basic reporting
- complete support for S7 interfacing and data management
- interfaces S7 also to other automation systems and field buses

KLINKMANN

Wonderware - Historian (System Platform) for Reporting

- world´s most used industrial database, based on MS SQL Server
- high accuracy data collecting, data compressing for long time storing, data analyzing and reporting tools
- local use: production/machine data collecting and reporting, production performance, quality, tracing etc.
- remote use: machine and production line remote monitoring, preventive maintenance etc.
- complete support for S7 interfacing and data management





Wonderware Historian System Architecture

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Pro-face

Operator ja Video Panels

S7 supported

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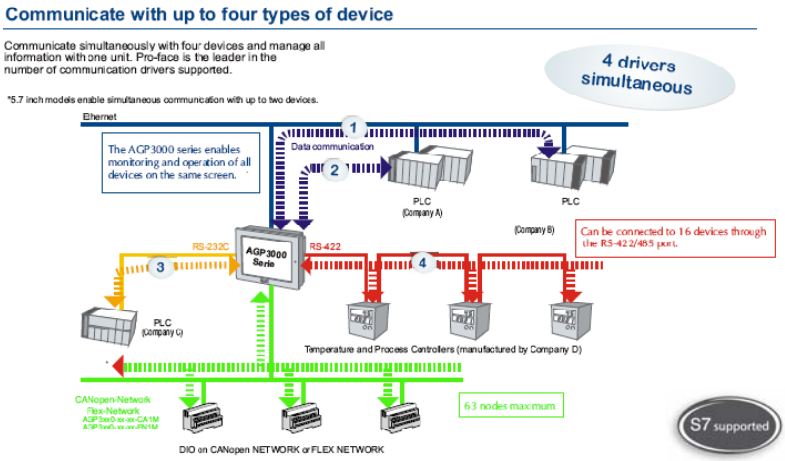
Pro-face

World´s largest manufacturer of Operator Panels

- Ready interfaces: Rockwell, Siemens, ABB, Omron, Mitsubishi....
- Ready interfaces to all major filed buses: Profibus, DeviceNet, CANOpen ...
- Simultaneous communication with four different protocols and/or buses
- FTP Client Support


Communicate with up to four types of device
Communicate simultaneously with four devices and manage all information with one unit. Pro-face is the leader in the number of communication drivers supported.
4 drivers simultaneous
*5.7 inch models enable simultaneous communication with up to two devices.
Ethernet
The AGP3000 series enables monitoring and operation of all devices on the same screen.
Data communication
PLC (Company A)
PLC (Company B)
Can be connected to 16 devices through the RS-422/485 port.
RS-232C
RS-422
AGP3000 Serie
PLC (Company C)
Temperature and Process Controllers (manufactured by Company D)
CANopen-Network
63 nodes maximum
DIO on CANopen NETWORK or FLEX NETWORK

S7 supported

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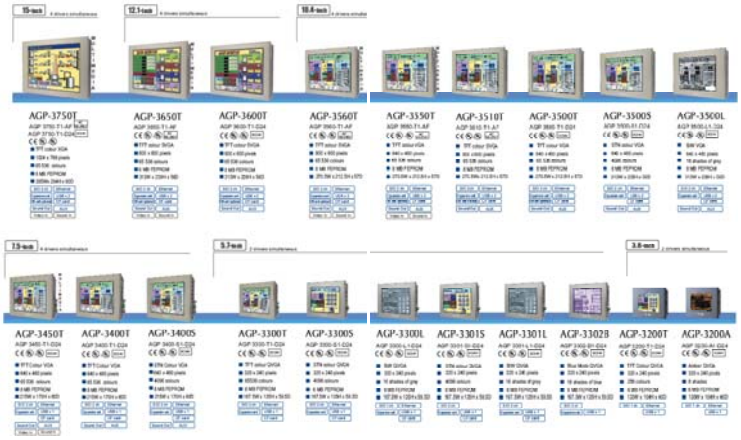
Pro-face

Complete assortment – smart tools, display sizes 3,8”-15”



Panel PC’s sizes 12”-19”, also PC´s for DIN-rail mounting

S7 supported

19”

15” Keypad

15”

12” Keypad

12”

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Pro-face

Operator and Video Display in one

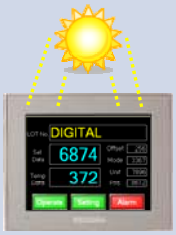
Also special applications like vehicles, cranes, food industry, power plants etc.

Example: video card and camera with a 1000 cd bright vision Pro-face panel secures the best visibility for a maximum area in moving vehicles, boiler flame monitoring etc.

GP3300U

1000cd/m²

Yes

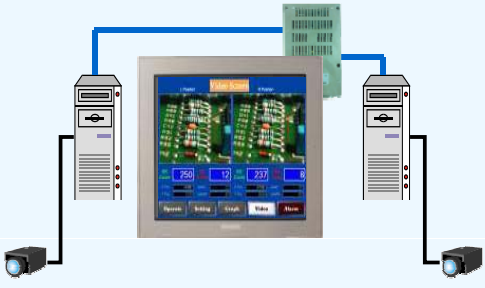


S7 supported

RGB2ch input unit

-It’s possible to input RGB video images to 2 channels and display them.

-It’s possible to convert input resolution and display images (EX.XGA->SVGA)



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eWON

eWON Remote Operation Units & for PLCs

eWON

Gateway and Teleservice

Solutions for

Siemens SIMATIC® Controllers

Remote programming and monitoring

Totally Integrated MPI Teleservice Solutions

S7 supported

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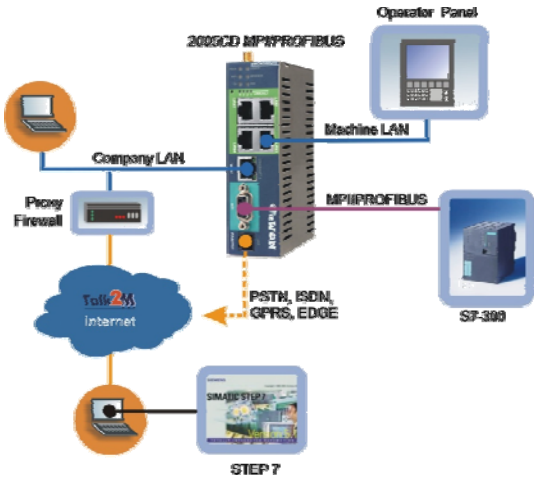
eWON

Solution #3 : LAN/Modem Router

Talk2M ready !



eWON 2005CD allows you the versatility to connect from remote or from customer's LAN!

- Designed for all SIMATIC S7 PLC, in PPI/MPI/Profibus or Ethernet
- IP router between factory LAN and machine LAN
- Internet Teleservice, through LAN or using GPRS/EDGE or ADSL
- Or Dial-up Teleservice
- Complete alarm notification system
- Product ref.: eWON 2005CD(LAN) or 2104(ADSL)

S7 supported

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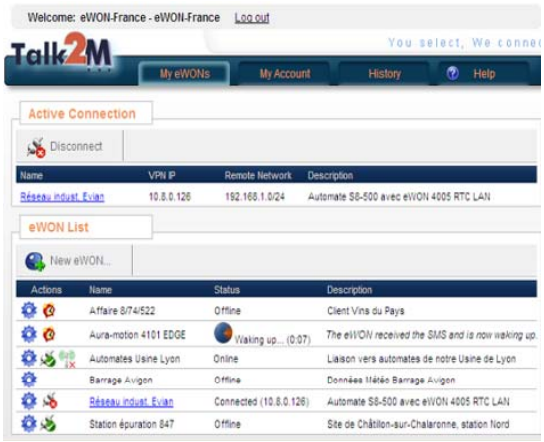
eWON

Talk2M

For GPRS/EDGE and ADSL connectivity



Internet connectivity tool

- Secure connection to your machines worldwide
- Using eWON with GPRS/EDGE modem, ADSL or connected into a remote LAN
- Plug & Play, simple to use as Skype®, no need to know IP address to connect
- Solves the problem of private IP addresses and the complexity of IT security systems (Firewall, Proxy, etc.)
- Get more info on: www.talk2m.com

S7 supported

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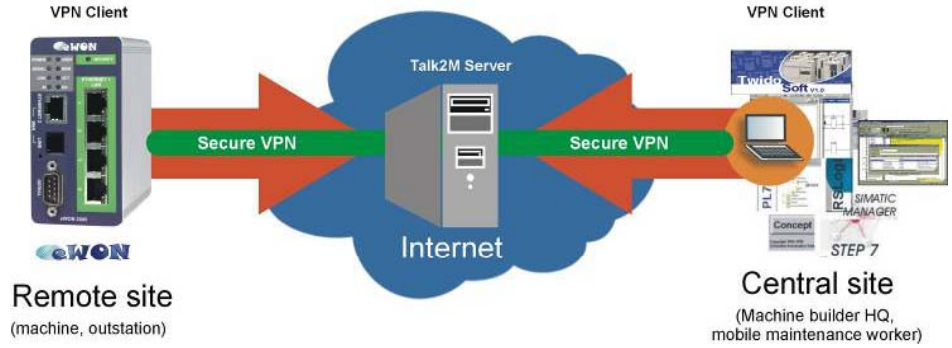
eWON



Secure VPN connection

Fully compliant with IT security standards

Hide the complexity of the network infrastructure

S7 supported

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Klinkmann S7 software for communication and wireless automation

S7 supported

KLINKMANN

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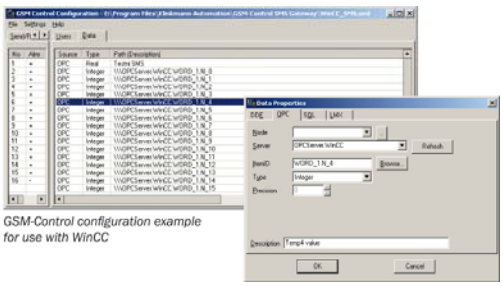
KLINKMANN - GSM, GPRS, 3G wireless automation software

GSM-Control

- easy integration of SMS text messages sending/receiving into WinCC applications
- alarms, metering, basic reporting, maintenance management etc.

GPRS and 3G software

- real time wireless connections with S7 and WinCC



GSM-Control configuration example for use with WinCC

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Thank You!

More information:

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Jukka.karjalainen@klinkmann.fi

Tel. 09 5404940